AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A display device comprising:
 - a substrate on which a photocatalyst is formed;
- a first transistor including a first gate electrode which has a convex curved surface from an edge to an opposite edge, the first transistor being formed over the photocatalyst;
- a second transistor including a second gate electrode which is connected to a first drain electrode of the first transistor, the second transistor being formed over the photocatalyst;
 - an insulating film provided so as to cover the first and the second transistors;
- a first electrode which is connected to a second drain electrode of the second transistor;
 - an electroluminescent layer formed over the first electrode; and
 - a second electrode which is provided over the electroluminescent layer,
- wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.
- 2. (Currently Amended) A display device comprising:
 - a substrate on which a photocatalyst is formed;
- a first transistor including a first gate electrode which has a convex curved face surface from an edge to an opposite edge, the first transistor being formed over the photocatalyst;
- a second transistor including a second gate electrode which is connected to a first drain electrode of the first transistor, the second transistor being formed over the photocatalyst;
 - an insulating film provided so as to cover the first and the second transistors;
- a first electrode which is connected to a second drain electrode of the second transistor;
 - an electroluminescent layer formed over the first electrode; and
 - a second electrode which is provided over the electroluminescent layer,
- wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

- 3. (Currently Amended) A display device comprising:
 - a substrate on which a photocatalyst is formed;
- a first transistor including a first gate electrode which has a convex curved face surface from an edge to an opposite edge, the first transistor being formed over the photocatalyst;
- a second transistor including a second gate electrode which is connected to a first drain electrode of the first transistor, the second transistor being formed over the photocatalyst;
 - a first insulating film provided so as to cover the first and the second transistors;
 - a second insulating film containing nitrogen which is formed so as to cover the first insulating film;
- a first electrode which is connected to a second drain electrode of the second transistor;
 - an electroluminescent layer formed over the first electrode; and
 - a second electrode which is provided over the electroluminescent layer,
- wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.
- 4. (Currently Amended) A display device comprising:
 - a substrate on which a photocatalyst is formed;
- a first transistor including a first gate electrode which has a convex curved face surface from an edge to an opposite edge, the first transistor being formed over the photocatalyst;
- a second transistor including a second gate electrode which is connected to a first drain electrode of the first transistor, the second transistor being formed over the photocatalyst;
 - a first insulating film provided so as to cover the first and the second transistors;
- a second insulating film containing nitrogen, which is formed so as to cover the first insulating film;
- a first electrode which is connected to a second drain electrode of the second transistor;
 - an electroluminescent layer formed over the first electrode; and

a second electrode which is provided over the electroluminescent layer,

wherein the electroluminescent layer comprises an electron injection layer, an electron transport layer, a light emitting layer, a hole transport layer, and a hole injection layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

- (Original) A display device according to any one of Claims 1 through 4, wherein each of the first and the second gate electrodes is formed over an area treated with base pretreatment.
- (Original) A display device according to Claim 5,
 wherein the base pretreatment is performed by using photocatalyst.
- 7. (Original) A display device according to any one of Claims 1 through 4, wherein the first and the second gate electrodes and the first and the second drain electrodes each contain gold, silver, copper, platinum, palladium, tungsten, nickel, tantalum, bismuth, lead, indium, tin, zinc, titanium or aluminum.
- 8. (Currently Amended) A display device according to any one of Claims [[2]] 1 through 4,

wherein the first electrode is connected to a second drain electrode of the second transistor by a columnar conductive film having a stacked structure any one of the second gate electrode, the first drain electrode, the electroluminescent layer and the second electrode has an end part whose cross section presents a convex curved shape.

- (Original) A display device according to any one of Claims 1 through 4, wherein the first and the second transistor each include an amorphous semiconductor or a semiamorphous semiconductor.
- 10. (Original) A display device according to any one of Claims 1 through 4, wherein a scan line is connected to the first gate electrode of the first transistor, a signal line is connected to the first drain electrode of the first transistor, and a protective circuit is provided for the scan line and the signal line.

- 11. (Original) A television receiver in which a display screen comprises a display device according to any one of Claims 1 through 4.
- 12. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first conductive film by applying a first liquid composition containing a first conductor over the photocatalyst;

forming a semiconductor film over the first conductive film;

forming a second conductive film over the semiconductor film by applying a second liquid composition containing a second conductor, whereby a thin film transistor is formed;

forming a first insulating film so as to cover the thin film transistor;

forming a first electrode over the first insulating film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first conductive film decreases continuously from a center portion of the first conductive film to an edge of the first conductive film.

13. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first conductive film by a droplet discharge method over the photocatalyst;

forming a semiconductor film over the first conductive film;

forming a second conductive film over the semiconductor film by a droplet discharge method, whereby a thin film transistor is formed;

forming a first insulating film so as to cover the thin film transistor;

forming a first electrode over the first insulating film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first conductive film decreases continuously from a center portion of the first conductive film to an edge of the first conductive film.

14. (Previously Presented) A method for fabricating a display device according to any one of Claims 12 and 13,

wherein the method further comprises a step of first base pretreatment to where the first conductive film is formed before forming the first conductive film.

15. (Previously Presented) A method for fabricating a display device according to any one of Claims 12 and 13,

wherein the method further comprises a step of second base pretreatment to where the second conductive film is formed before forming the second conductive film.

- 16. (Original) A method for fabricating a display device according to Claim 14, wherein the first base pretreatment is performed by using photocatalyst.
- 17. (Original) A method for fabricating a display device according to Claim 15, wherein the second base pretreatment is performed by using photocatalyst.
- 18. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second gate electrodes by a droplet discharge method;

forming a semiconductor film over the first and second gate electrodes;

forming a mask over the semiconductor film;

patterning the semiconductor film using the mask;

forming a first and a second source electrodes and a first and a second drain electrodes over the patterned semiconductor films by a droplet discharge method, whereby thin film transistors are formed;

forming a columnar conductive film over the second source electrode or the second drain electrode by discharging droplets containing a conductor on top of each other;

forming a first insulating film so as to cover <u>a side portion of</u> the columnar conductive film and the thin film transistors:

forming a first electrode so as to connect to the columnar conductive film over the first insulating film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode by a droplet discharge method; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

19. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second gate electrodes by a droplet discharge method;

forming a semiconductor film over the first and second gate electrodes;

forming a mask over the semiconductor film;

patterning the semiconductor film using the mask;

forming a first and a second source electrodes and a first and a second drain electrodes over the patterned semiconductor films by a droplet discharge method, whereby thin film transistors are formed;

forming a first insulating film so as to cover the thin film transistors;

forming a contact hole in the first insulating film over the second source electrode or the second drain electrode;

forming a columnar conductive film by discharging droplets containing a conductor on top of each other in the contact hole;

forming a first electrode so as to connect to the columnar conductive film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode by a droplet discharge method; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

20. (Previously Presented) A method for fabricating a display device according to Claim 19.

wherein the mask is formed over the first insulating film by a droplet discharge method, and

the contact hole is formed in the first insulating film by etching using the mask.

21. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second gate electrodes by a droplet discharge method;

forming a semiconductor film over the first and second gate electrodes;

forming a mask over the semiconductor film;

patterning the semiconductor film using the mask;

forming a first and a second source electrodes and a first and a second drain electrodes over the patterned semiconductor films by a droplet discharge method, whereby thin film transistors are formed;

forming a first insulating film so as to form an opening over the second source electrode or the second drain electrode;

forming a first electrode in the opening of the first insulating film;

forming a second insulating film so as to cover a part of the first electrode;

forming an electroluminescent layer over the first electrode by a droplet discharge method; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

22. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second gate electrodes by a droplet discharge method;

forming a semiconductor film over the first and second gate electrodes;

forming a mask over the semiconductor film;

patterning the semiconductor film using the mask;

forming a first and a second source electrodes and a first and a second drain electrodes over the patterned semiconductor films by a droplet discharge method, whereby thin film transistors are formed;

forming a columnar organic film over the second source electrode or the second drain electrode;

forming a first insulating film so as to cover the columnar organic film and the thin film transistors;

removing the columnar organic film;

forming a first electrode so as to connect to the second source electrode or the second drain electrode over the first insulating film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode by a droplet discharge method; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

- 23. (Original) A method for fabricating a display device according to Claim 22, wherein the first insulating film is repellent to the columnar organic film.
- 24. (Original) A method for fabricating a display device according to Claim 22, wherein the columnar organic film is removed by water washing.
- 25. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second gate electrodes by a droplet discharge method;

forming a semiconductor film over the first and second gate electrodes;

forming a first mask over the semiconductor film;

patterning the semiconductor film using the first mask;

forming a first and a second source electrodes and a first and a second drain electrodes over the patterned semiconductor films by a droplet discharge method, whereby a first and a second thin film transistor[[s]] are formed;

forming an organic film which is repellent to a first insulating film on a surface of the second thin film transistor;

forming a second mask over a part of the second source electrode or the second drain electrode;

removing the organic film using the second mask;

forming the first insulating film;

forming an opening over the part of the second source electrode or the second drain electrode by removing the second mask;

forming a first electrode in the opening so as to connect to the second source electrode or the second drain electrode;

forming a second insulating film so as to cover a part of the first electrode;

forming an electroluminescent layer over the first electrode by a droplet discharge method; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

26. (Previously Presented) A method for fabricating a display device according to any one of Claims 18, 19, 21, 22 and 25,

wherein the method further comprises a step of first base pretreatment to where the first and the second gate electrodes are formed before forming the first and second gate electrodes.

27. (Previously Presented) A method for fabricating a display device according to any one of Claims 18, 19, 21, 22 and 25,

wherein the method further comprises a step of second base pretreatment to where the first and the second source electrodes and the first and the second drain electrodes are formed before forming the first and the second source electrodes and the first and the second drain electrodes.

28. (Original) A method for fabricating a display device according to Claim 26, wherein the first base pretreatment is performed by using photocatalyst.

- 29. (Original) A method for fabricating a display device according to Claim 27, wherein the second base pretreatment is performed by using photocatalyst.
- 30. (Original) A method for fabricating a display device according to any one of Claims 18, 19, 21, 22 and 25,

wherein channel protective films are formed in contact with the semiconductor film over the first and the second gate electrode.

31. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second source electrodes and a first and a second drain electrodes by a droplet discharge method;

forming a semiconductor film over the first and the second source electrodes and the first and the second drain electrodes;

forming a mask over the semiconductor film;

patterning the semiconductor film using the mask;

forming a first and a second gate electrode over the patterned semiconductor films by a droplet discharge method, whereby thin film transistors are formed;

forming a columnar conductive film over the second source electrode or the second drain electrode;

forming a first insulating film so as to cover <u>a side portion of</u> the columnar conductive film and the thin film transistors;

forming a first electrode so as to connect to the columnar conductive film over the first insulating film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode by a droplet discharge method; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first source electrode decreases continuously from a center portion of the first source electrode to an edge of the first source electrode.

32. (Previously Presented) A method for fabricating a display device according to Claim

31,

wherein the method further comprises a step of first base pretreatment to where the first and the second source electrodes and the first and the second drain electrodes are formed before forming the first and the second source electrodes and the first and the second drain electrodes.

33. (Previously Presented) A method for fabricating a display device according to Claim

31,

wherein the method further comprises a step of second base pretreatment to where the first and the second gate electrodes are formed before forming the first and the second gate electrodes.

34. (Original) A method for fabricating a display device according to Claim 32, wherein the first base pretreatment is performed by using photocatalyst.

35. (Original) A method for fabricating a display device according to Claim 33, wherein the second base pretreatment is performed by using photocatalyst.

36. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second gate electrodes of a first and a second transistors by a droplet discharge method;

forming a semiconductor film over the first and the second gate electrodes with a gate insulating film therebetween;

forming a first and a second source electrodes and a first and a second drain electrodes of the first and the second transistors by a droplet discharge method over the semiconductor film;

forming a contact hole for connecting the first source electrode or the first drain electrode of the first transistor to the second gate electrode of the second transistor by etching the gate insulating film;

forming a conductive film in the contact hole by a droplet discharge method, whereby thin film transistors are formed;

forming a columnar conductive film over the second source electrode or the second drain electrode of the second transistor;

forming a first insulating film so as to cover <u>a side portion of</u> the columnar conductive film and the first and the second thin film transistors;

forming a first electrode so as to connect to the columnar conductive film over the first insulating film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

37. (Currently Amended) A method for fabricating a display device, comprising the steps of:

forming a photocatalyst as a base film over a substrate;

forming a first and a second gate electrodes of a first and a second transistors by a droplet discharge method;

forming a semiconductor film over the first and the second gate electrodes with a gate insulating film therebetween;

patterning the semiconductor film;

forming a first and a second source electrodes and a first and a second drain electrodes of the first and the second transistors by a droplet discharge method over the patterned semiconductor films;

forming a contact hole for connecting the first source electrode or the first drain electrode of the first transistor to the second gate electrode of the second transistor by etching the gate insulating film using any of the source electrodes and the drain electrodes;

forming a conductive film in the contact hole by a droplet discharge method, whereby thin film transistors are formed:

forming a columnar conductive film over the second source electrode or the second drain electrode of the second transistor;

forming a first insulating film by a droplet discharge method so as to cover <u>a side</u> portion of the columnar conductive film and the first and the second thin film transistors;

forming a first electrode so as to connect to the columnar conductive film over the first insulating film;

forming a second insulating film so as to cover an end portion of the first electrode;

forming an electroluminescent layer over the first electrode by a droplet discharge method; and

forming a second electrode so as to cover the electroluminescent layer,

wherein the thickness of the first gate electrode decreases continuously from a center portion of the first gate electrode to an edge of the first gate electrode.

38. (Previously Presented) A method for fabricating a display device according to any one of Claims 36 and 37,

wherein the method further comprises a step of first base pretreatment to where the gate electrodes of the first and the second transistors are formed before forming the gate electrodes of the first and the second transistors.

39. (Previously Presented) A method for fabricating a display device according to any one of Claims 36 and 37,

wherein the method further comprises a step of second base pretreatment to where the first and the second source electrodes and the first and the second drain electrodes of the first and the second transistors are formed before forming the first and the second source electrodes and the first and the second drain electrodes of the first and the second transistors.

- 40. (Original) A method for fabricating a display device according to Claim 38, wherein the first base pretreatment is performed by using photocatalyst.
- 41. (Original) A method for fabricating a display device according to Claim 39, wherein the second base pretreatment is performed by using photocatalyst.
- 42. (Original) A method for fabricating a display device according to any one of Claims 12, 13, 18, 19, 21, 22, 25, 31, 36 and 37,

wherein a surface of the first insulating film is planarized by spraying a gas.

43. (Currently Amended) A method for fabricating a display device according to any one of Claims 12, 13, and 36-and,

wherein the electroluminescent layer is formed by a droplet discharge method.

44. (Currently Amended) A method for fabricating a display device, comprising the steps of:

preparing a treatment system including a first treatment chamber for droplet discharge and a second treatment chamber for planarization;

forming a <u>columnar</u> conductive film <u>having side portions covered with</u> [[and]] an insulating film over an object by a droplet discharge method in the first treatment chamber;

transferring the object into the second treatment chamber without exposure to the atmosphere; and

planarizing <u>a top surface of</u> the <u>columnar</u> conductive film and the insulating film in the second treatment chamber by a means for spraying a gas.

- 45. (Original) A method for fabricating a display device according to Claim 44, wherein each of the conductive film and the insulating film is formed over an area of the object treated with base pretreatment.
- 46. (Original) A method for fabricating a display device according to Claim 45, wherein the base pretreatment is performed by using photocatalyst.
- 47. (Previously Presented) A method for fabricating a display device according to any one of Claims 13, 18, 19, 20, 21, 22, 25, 31, 36, 37 and 44,

wherein ink-jet is used for the droplet discharge method.